

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-126540-1

Client Project/Site: Stormwater Toxicity + BOS/TSS/N2

For:

SUEZ Water Environmental Services Inc

1 Berkshire Street

Holyoke, Massachusetts 01040

Attn: Val Partyka



Authorized for release by:

11/14/2017 12:53:07 PM

Steve Hartmann, Project Manager I

(413)572-4000

steve.hartmann@testamericainc.com

LINKS

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TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Lab Chronicle	6
Certification Summary	7
Method Summary	8
Sample Summary	9
Subcontract Data	10
Receipt Checklists	27
Chain of Custody	29

Definitions/Glossary

Client: SUEZ Water Environmental Services Inc
Project/Site: Stormwater Toxicity + BOS/TSS/N2

TestAmerica Job ID: 480-126540-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: SUEZ Water Environmental Services Inc
Project/Site: Stormwater Toxicity + BOS/TSS/N2

TestAmerica Job ID: 480-126540-1

Job ID: 480-126540-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-126540-1

Comments

No additional comments.

Receipt

The sample was received on 10/26/2017 1:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method SM 2320B: The following sample(s) was received with headspace in the sample container. This sample container was received with headspace. CSO#9 STORMWATER (480-126540-1).

Method SM 5210B: The glucose-glutamic acid standard recovered outside the recovery limits specified in the method for batch 480-384090 . Recovery was 77% with quality control limits of 85-115%; therefore results may be biased low for the following samples: CSO#9 STORMWATER (480-126540-1), (480-126523-A-1) and (480-126523-A-1 DU).

Method SM 2540C: Reanalysis of the following sample was performed outside of the analytical holding time in order to confirm results. Results did not confirm, both results are reported. CSO#9 STORMWATER (480-126540-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: SUEZ Water Environmental Services Inc
Project/Site: Stormwater Toxicity + BOS/TSS/N2

TestAmerica Job ID: 480-126540-1

Client Sample ID: CSO#9 STORMWATER

Lab Sample ID: 480-126540-1

Date Collected: 10/25/17 03:47

Matrix: Water

Date Received: 10/26/17 01:30

Method: 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	640		10		ug/L		11/06/17 16:06	11/07/17 18:19	1
Cadmium	ND		0.50		ug/L		11/06/17 16:06	11/07/17 18:19	1
Copper	34		5.0		ug/L		11/06/17 16:06	11/07/17 18:19	1
Lead	26		0.30		ug/L		11/06/17 16:06	11/07/17 18:19	1
Nickel	ND		5.0		ug/L		11/06/17 16:06	11/07/17 18:19	1
Zinc	74		20		ug/L		11/06/17 16:06	11/07/17 18:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	0.84		0.20		mg/L		10/26/17 14:14	10/28/17 12:12	1
Total Kjeldahl Nitrogen	2.7		0.20		mg/L		10/26/17 08:15	10/26/17 14:00	1
Nitrite as N	ND		0.050		mg/L			10/26/17 21:38	1
Nitrate as N	0.22		0.050		mg/L			10/26/17 21:38	1
Alkalinity, Total	7.7		5.0		mg/L			10/27/17 22:22	1
Residue, Total	170		10		mg/L			11/01/17 16:23	1
Total Dissolved Solids	ND		2000		mg/L			11/01/17 04:41	1
Total Dissolved Solids	55	H	10		mg/L			11/03/17 04:06	1
Biochemical Oxygen Demand	21	*	12		mg/L			10/26/17 15:11	1
Total Organic Carbon	9.9		1.0		mg/L			10/30/17 18:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness as calcium carbonate	27000		10000		ug/L			10/29/17 09:09	1
Specific Conductance	130		1.0		umhos/cm			10/26/17 17:35	1
Total Suspended Solids	61		4.0		mg/L			10/30/17 00:57	1
Nitrogen, Total	2.9		0.20		mg/L			11/02/17 12:23	1

Lab Chronicle

Client: SUEZ Water Environmental Services Inc
Project/Site: Stormwater Toxicity + BOS/TSS/N2

TestAmerica Job ID: 480-126540-1

Client Sample ID: CSO#9 STORMWATER

Date Collected: 10/25/17 03:47

Date Received: 10/26/17 01:30

Lab Sample ID: 480-126540-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200			501519	11/06/17 16:06	AJR	TAL SAV
Total/NA	Analysis	200.8		1	501736	11/07/17 18:19	BJB	TAL SAV
Total/NA	Prep	Distill/Ammonia			384007	10/26/17 14:14	KRT	TAL BUF
Total/NA	Analysis	350.1		1	384400	10/28/17 12:12	KRT	TAL BUF
Total/NA	Prep	351.2			383899	10/26/17 08:15	CLT	TAL BUF
Total/NA	Analysis	351.2		1	384032	10/26/17 14:00	CLT	TAL BUF
Total/NA	Analysis	353.2		1	384091	10/26/17 21:38	DCB	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	384097	10/26/17 21:38	DCB	TAL BUF
Total/NA	Analysis	SM 2320B		1	384443	10/27/17 22:22	DSC	TAL BUF
Total/NA	Analysis	SM 2340C		1	500431	10/29/17 09:09	DAM	TAL SAV
Total/NA	Analysis	SM 2510B		1	384064	10/26/17 17:35	ALZ	TAL BUF
Total/NA	Analysis	SM 2540B		1	385101	11/01/17 16:23	EKB	TAL BUF
Total/NA	Analysis	SM 2540C		1	384921	11/01/17 04:41	KMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	385417	11/03/17 04:06	BEV	TAL BUF
Total/NA	Analysis	SM 2540D		1	384498	10/30/17 00:57	KMB	TAL BUF
Total/NA	Analysis	SM 5210B		1	384090	10/26/17 15:11	ALZ	TAL BUF
Total/NA	Analysis	SM 5310D		1	384834	10/30/17 18:28	EKB	TAL BUF
Total/NA	Analysis	Total Nitrogen		1	385262	11/02/17 12:23	MRF	TAL BUF

Laboratory References:

SC0088 = New England Bioassay, Inc., 77 Batson Drive, Manchester, CT 06040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Stormwater Toxicity + BOS/TSS/N2

TestAmerica Job ID: 480-126540-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Massachusetts	State Program	1	M-NY044	06-30-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 5310D		Water	Total Organic Carbon

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 2510B		Water	Specific Conductance
SM 2540B		Water	Residue, Total
Total Nitrogen		Water	Nitrogen, Total

Laboratory: TestAmerica Savannah

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Massachusetts	State Program	1	M-GA006	06-30-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
200.8	200	Water	Aluminum
200.8	200	Water	Zinc

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 2340C		Water	Hardness as calcium carbonate

Method Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Stormwater Toxicity + BOS/TSS/N2

TestAmerica Job ID: 480-126540-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL SAV
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 2340C	Hardness, Total (mg/l as CaCO ₃)	SM	TAL SAV
SM 2510B	Conductivity, Specific Conductance	SM	TAL BUF
SM 2540B	Solids, Total	SM	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 5210B	BOD, 5-Day	SM	TAL BUF
SM 5310D	Organic Carbon, Total (TOC)	SM	TAL BUF
Total Nitrogen	Nitrogen, Total	EPA	TAL BUF
Stormwater Toxicity	General Sub Contract Method	NONE	SC0088

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

SC0088 = New England Bioassay, Inc., 77 Batson Drive, Manchester, CT 06040

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Stormwater Toxicity + BOS/TSS/N2

TestAmerica Job ID: 480-126540-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-126540-1	CSO#9 STORMWATER	Water	10/25/17 03:47	10/26/17 01:30

1

2

3

4

5

6

7

8

9

10

11

12

SUBCONTRACTED DATA



New England Bioassay

A Division of GZA

GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION
MANAGEMENT

77 Batson Drive
Manchester, CT 06042
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www.nebio.com



ACUTE AQUATIC TOXICITY TEST REPORT

United Water, Holyoke MA Stormwater Discharge

Test Start Date: October 26, 2017

Test Period: October 2017

Report Prepared by:

New England Bioassay
A division of GZA GeoEnvironmental, Inc.
77 Batson Drive
Manchester, CT 06042

NEB Project Number: 05.0044965.00

Report Date: November 13, 2017

Report Submitted to:

Test America, Westfield
501 Southampton Road
Suite C
Westfield, MA 01085

Sample ID: CSO #9 Stormwater

This report shall not be reproduced, except in its entirety, without written approval of New England Bioassay (NEB). NEB is the sole authority for authorizing edits or modifications to the data contained in this report. Test results relate only to samples analyzed. Please contact the Lab Manager, Kimberly Wills, at 860-858-3153 or kimberly.wills@gza.com if you have any questions concerning these results.

Whole Effluent Toxicity Testing Report Instruction Form

Client Name/Project: Test America / United Water Test Date: 10/26/17

Sample ID: CSO #9 Stormwater

Your results were as follows:

☒ Pass (Monitoring Only)

- ☐ Fail – Please proceed according to the instructions in your permit.
- ☐ Invalid – **Retesting is still required. Retest report will be sent at a later date under separate cover.**
- ☐ Original Test Invalid – **Valid retest performed. Both test and retest results are attached.**
- ☐ Retesting will be or has been performed according to the Case 1 Protocols outlined in the attached copy of EPA-New England's species-specific, self-implementing policy for alternate dilution water.
- ☐ This is your _____ case of dilution water toxicity. Please proceed according to the Case 2 Protocols outlined in the attached copy of EPA-New England's species-specific, self-implementing policy for alternate dilution water. The alternate dilution water you select for future tests for this species should be described as follows: "synthetic laboratory water made up according to EPA's toxicity test protocols, by adding specified amounts of salts into deionized water in order to match the hardness of our receiving water." Writing this letter should help you to avoid retests in the future.
- ☐ Available information is insufficient to determine whether this test passed or failed. Please compare results to your permit limits. Please submit a current copy of your permit to the NEB Lab so that we can determine the status of future tests results and help ensure your compliance with permit requirements.

Please complete the items on this list before reporting these results according to the instructions in the "Monitoring and Reporting" Section of your permit.

- Please complete, sign and date the upper portion of the "Whole Effluent Toxicity Test Report Certification" page which is the page directly following this page.
- Fill in the Sample Type and Sample Method (upper right) and the Permit Limits (lower left) on the EPA Toxicity Test Summary Sheet(s) if they are incomplete.
- Fill in any missing information on the NEB Chain-of-Custody documents. This includes ensuring that the following information is recorded: Sampler's name and title, Facility name and address, Sample collection methods, Sample collection start and end dates and times, Types of sample, Chlorination status of samples upon shipment to NEB, Site description and Sample collection procedures.
- Monitoring results should be summarized on your monthly Discharge Monitoring Report Form.
- Signed and dated originals of this report must be submitted to the State (and Federal) Agencies specified in the "Monitoring and Reporting" section of your permit.

Questions? Please contact the Lab Manager, Kim Wills, at (860) 858-3153 or kimberly.wills@gza.com.

WHOLE EFFLUENT TOXICITY TEST REPORT CERTIFICATION (Permittee)

I certify under penalty of law that this document and all ATTACHMENTS were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on _____

[Date]

[Authorized Signature]

[Print or Type Name and Title]

[Print or Type the Permittee's Name]

[Print or Type the NPDES Permit No.]

Since the WET test and report check is complicated, the New England Bioassay Aquatic Toxicity Laboratory has certified the validity of the WET test data in the section below. Please note that this does not relieve the permittee from its responsibility to sign and certify the report under 40 C.F.R. S 122.41(k).

WHOLE EFFLUENT TOXICITY TEST REPORT CERTIFICATION (Bioassay Laboratory)

I certify under penalty of law that this document and all ATTACHMENTS were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Executed on _____

[Date]

[Authorized Signature]

Kim Wills, Laboratory Manager

[Print or Type Name and Title]

New England Bioassay

[Print or Type Name of Bioassay Laboratory]

24. Telephone Contacts

If you have questions, please contact Joy Hilton, Water Technical Unit, at (617) 918-1877 or David McDonald, Ecosystem Assessment Unit, at (617) 918-8609.

NEW ENGLAND BIOASSAY – A DIVISION OF GZA EPA TEST SUMMARY SHEET
 Facility Name: United Water Test Start Date: 10/26/17
 NPDES Permit Number: MA0101630 Pipe Number: _____

<u>Test Type</u>	<u>Test Species</u>	<u>Sample Type</u>	<u>Sample Method</u>
<input checked="" type="checkbox"/> Acute	<input type="checkbox"/> Fathead Minnow	<input type="checkbox"/> Prechlorinated	<input type="checkbox"/> Grab
<input type="checkbox"/> Chronic	<input checked="" type="checkbox"/> Ceriodaphnia	<input type="checkbox"/> Dechlorinated	<input checked="" type="checkbox"/> Composite
<input type="checkbox"/> Modified	<input type="checkbox"/> Daphnia Pulex	<input type="checkbox"/> Chlorine Spiked in Lab	<input type="checkbox"/> Flowthru
<input type="checkbox"/> (chronic reporting	<input type="checkbox"/> Mysid Shrimp	<input type="checkbox"/> Chlorinated on site	<input type="checkbox"/> Other
<input type="checkbox"/> acute values)	<input type="checkbox"/> Sheepshead	<input type="checkbox"/> Unchlorinated	
<input type="checkbox"/> 24hr screening	<input type="checkbox"/> Menidia		
	<input type="checkbox"/> Sea Urchin		
	<input type="checkbox"/> Champia		
	<input type="checkbox"/> Selenastrum		
	<input type="checkbox"/> Other _____		

Dilution Water

☐ receiving water collected at a point upstream of or away from the discharge, free from toxicity or other sources of contamination; (Receiving water name: _____)
☐ alternate surface water of known quality and a hardness, etc. to generally reflect the characteristics of the receiving water; (Surface water name: _____)
☒ synthetic water prepared using either Millipore Mill-Q or equivalent deionized water and reagent grade chemicals; or deionized water combined with mineral water;
☐ or artificial sea salts mixed with deionized water;
☐ deionized water and hypersaline brine; or
☐ other _____

Effluent sampling date (s): 10/24-25/17

Effluent concentrations tested (in%): 0 6.25 12.5 25 50 100

* Permit limit concentration: N/A

Was effluent salinity adjusted? No If yes, to what value? N/A ppt

With sea salts? N/A Hypersaline brine solution? N/A

Actual effluent concentrations tested after salinity adjustment (%): 0 6.25 12.5 25 50 100

Reference Toxicant test date: 10/3/17

Test Acceptability Criteria

Mean Control Survival: <u>N/A</u>	Mean Control Reproduction: <u>N/A</u>
Mean Diluent Survival: <u>95%</u>	Mean Diluent Reproduction: <u>N/A</u>
Mean Control Weight: <u>N/A</u>	Mean Control Cell Count: <u>N/A</u>
Mean Diluent Weight: <u>N/A</u>	Mean Diluent Cell Count: <u>N/A</u>

	<u>Limits</u>		<u>Results</u>
LC50	<u>N/A</u>	LC50	<u>70.7%</u>
		Upper Value	<u>100%</u>
		Lower Value	<u>50%</u>
		Data Analysis	
		Method Used	<u>Graphical</u>
A-NOEC	<u>_____</u>	A-NOEC	<u>50%</u>
C-NOEC	<u>N/A</u>	C-NOEC	<u>-----</u>
		LOEC	<u>-----</u>
IC25	<u>N/A</u>	IC25	<u>-----</u>
IC50	<u>N/A</u>	IC50	<u>-----</u>

CERIODAPHNIA DUBIA AQUATIC TOXICITY TEST REPORT

Test Reference Manual: EPA 821-R-02-012, "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater Organisms and Marine Organisms", Fifth Edition

Test Method: *Ceriodaphnia dubia* Acute Toxicity Test – Method 2002.0

Test Type: Acute Static Non-Renewal Freshwater Test

Temperature : 25 ± 1°C

Light Quality: Ambient Laboratory Illumination

Photoperiod: 16 hours light, 8 hours dark

Test Chamber Size: 30 mL

Test Solution Volume: Minimum 25 mL

Age of Test Organisms: 1-24 hours (neonates)

Number of Daphnids Per Test Chamber: 5

Number of Replicate Test Chambers Per Treatment: 4

Total Number of Daphnids Per Test Concentration: 20

Feeding Regime: Fed YCT and *Selanastrum* while holding prior to initiating test as per manual.

Aeration: None

Dilution Water: NEB Lab Synthetic Soft Water (hardness _____ 40 to 48 mg/L)

Effluent Concentrations: 0%, 6.25%, 12.5%, 25%, 50% and 100% effluent

Test Duration: 48 hours

Effect measured: Mortality – no movement of body/appendages on gentle prodding.

Test Acceptability: ≥ 90% survival of test organisms in control solution Yes X No _

Sampling Requirements: Samples first used within 36 hours of collection Yes X No _

Sample Volume Required: Minimum 1 liter

Test Organism Source: NEB

Test Acceptability Criteria: Mean Alternate Water Control Survival = N/A
Mean Dilution Water Control Survival = 95%

<u>Test Results:</u>	<u>Limits</u>	<u>Results</u>	<u>Status</u>
48-hour LC50	N/A	70.7%	
Upper Value		100%	
Lower Value		50%	
Data Analysis Method Used		Graphical	
A-NOEC		50%	

<u>Reference Toxicant Data:</u>	<u>Date:</u>	<u>10/3/17</u>
	<u>Toxicant:</u>	Sodium Chloride
	<u>Dilution Water:</u>	NEB Lab Synthetic Soft Water
	<u>Source:</u>	New England Bioassay
	<u>48-hour LC50:</u>	<u>1.7 g/L</u>
	<u>In Acceptable Range:</u>	Yes <u>X</u> No <u> </u>

Dechlorination Procedures: Chlorine is measured using 4500 CL-G DPD Colorimetric Method.

X Dechlorination was not required

_ Sample was dechlorinated by adding sodium thiosulfate to the sample prior to test initiation. Since dechlorination of the effluent was necessary, a thiosulfate control of diluent water spiked with sodium thiosulfate was also included in the test series. Chlorine was _____ mg/L in a dechlorinated sample.

X Chlorine Measurement was elevated due to interference. Chlorine was 0.05 mg/L when measured using Amperometric titration.

Total Residual Chlorine was re-measured following aeration, and was found to be _____ mg/L.

Additional Notes or Other Conditions Affecting the Test:

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

NEW ENGLAND BIOASSAY ACUTE TOXICITY DATA FORM

COVER SHEET FOR LC50 TESTS

CLIENT: Test America
 ADDRESS: 501 Southampton Rd, Suite C
Westfield, MA 01085
 SAMPLE TYPE: United Water (Holyoke SW)
 DILUTION WATER: Soft Reconstituted Freshwater

C.dubia TEST ID # 17-1671
 COC # c37-4024
 PROJECT # 05.0044965.00

Sample Date(s): 10/24-25/17 Date Received: 10/26/17

INVERTEBRATES

TEST SET UP (TECH INIT) PD
 TEST SPECIES *Ceriodaphnia dubia*
 NEB LOT# Cd17(10-26)
 AGE < 24 hours
 TEST SOLUTION VOLUME (mls) 30
 NO. ORGANISMS PER TEST CHAMBER 5
 NO. ORGANISMS PER CONCENTRATION 20
 NO. ORGANISMS PER CONTROL 20

LABORATORY CONTROL WATER:

		Hardness mg/L CaCO ₃	Alkalinity mg/L CaCO ₃
ARTIFICIAL FW:	NEB BATCH #	C37-S022	50
			40

	DATE	TIME
TEST START:	10/26/17	1541
TEST END:	10/28/17	1529

RESULTS OF *Ceriodaphnia dubia* LC50 TEST

METHOD	LC50 (%)	95% Confidence Limits
BINOMIAL/GRAPHICAL	70.7%	50% - 100%
PROBIT		
SPEARMAN KARBUR		
NOAEL	50%	

NOEC: NO OBSERVABLE EFFECT CONCENTRATION

Comments:

REVIEWD BY:

DATE:

**NEW ENGLAND BIOASSAY
Toxicity Test Data Sheet**

NEB Test #: 17-1671

Project #: 05.0044965.00

Facility Name: United Water

Date Sampled: 10/24-25/17

Date Received: 10/26/17

Sample ID: CSO #9 Stormwater

Test Organism: Ceriodaphnia dubia

Organism Age: < 24 hours

Test Duration: 48 (hours)

Beginning Date: 10/26/17 Time: 1541

Dilution Water Source: SRCF

Dilution Hardness: 50 ppm as CaCO₃

Effluent Conc. %	Number of Surviving Organisms			Dissolved Oxygen (mg/L)			Temperature (°C)			pH		
	PD	CW	CW	PD	CW	CW	PD	CW	CW	PD	CW	CW
Initials	0	24	48	0	24	48	0	24	48	0	24	48
Diluent A	5	5	5	8.1	8.2	8.4	24.9	25.7	24.7	7.6	7.5	7.4
Diluent B	5	5	5			8.3			24.8			7.4
Diluent C	5	5	4			8.2			25.2			7.3
Diluent D	5	5	5			8.2			25.1			7.3
6.25 A	5	5	5	8.1	8.2	8.2	25.1	25.3	25.0	7.6	7.5	7.2
6.25 B	5	5	5			8.2			25.2			7.2
6.25 C	5	5	5			8.2			25.3			7.2
6.25 D	5	5	5			8.2			25.4			7.2
12.5 A	5	5	5	8.2	8.0	8.2	25.1	25.8	25.4	7.5	7.5	7.2
12.5 B	5	5	5			8.1			25.5			7.2
12.5 C	5	5	5			8.1			25.4			7.2
12.5 D	5	5	5			8.1			25.5			7.2
25 A	5	5	5	8.3	7.7	8.1	25.1	25.8	25.5	7.5	7.5	7.2
25 B	5	5	5			8.0			25.4			7.2
25 C	5	5	5			8.0			25.4			7.2
25 D	5	5	5			8.0			25.5			7.2
50 A	5	5	5	8.5	7.4	8.0	25.0	25.6	25.5	7.3	7.5	7.3
50 B	5	5	5			7.8			25.4			7.3
50 C	5	5	5			7.7			25.5			7.2
50 D	5	5	5			7.6			25.5			7.2

LC50	Confidence Interval	A-NOEC	Computational Method
70.7%	50% - 100%	50%	Graphical

**NEW ENGLAND BIOASSAY
Toxicity Test Data Sheet**

NEB Test #: 17-1671

Project #: 05.0044965.00

Facility Name: United Water

Date Sampled: 10/24-25/17

Date Received: 10/26/17

Sample ID: CSO #9 Stormwater

Test Organism: Ceriodaphnia dubia

Organism Age: < 24 hours

Test Duration: 48 (hours)

Beginning Date: 10/26/17 Time: 1541

Dilution Water Source: SRCF

Dilution Hardness: 50 ppm as CaCO₃

Effluent Conc. %	Number of Surviving Organisms			Dissolved Oxygen (mg/L)			Temperature (°C)			pH		
	PD	CW	CW	PD	CW	CW	PD	CW	CW	PD	CW	CW
Initials	0	24	48	0	24	48	0	24	48	0	24	48
100 A	5	0	0	9.5	6.3	7.0	24.7	26.0	25.5	6.7	7.3	7.1
100 B	5	0	0		6.0	6.8		26.0	25.5		7.3	7.1
100 C	5	0	0		6.1	6.8		26.0	25.5		7.3	7.0
100 D	5	0	0		6.1	6.9		26.0	25.5		7.2	6.9

LC50	Confidence Interval	A-NOEC	Computational Method
70.7%	50% - 100%	50%	Graphical

CETIS Analytical Report

Report Date: 13 Nov-17 10:36 (p 1 of 2)

Test Code: 17-1671 | 18-3495-3463

Ceriodaphnia 48-h Acute Survival Test

New England Bioassay

Analysis ID: 08-2153-6784	Endpoint: 48h Survival Rate	CETIS Version: CETISv1.9.2
Analyzed: 13 Nov-17 10:30	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes
Batch ID: 08-6381-9841	Test Type: Survival (48h)	Analyst:
Start Date: 26 Oct-17 15:41	Protocol: EPA/821/R-02-012 (2002)	Diluent: Laboratory Water
Ending Date: 28 Oct-17 15:29	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 48h	Source: In-House Culture	Age: <24h
Sample ID: 05-5207-1997	Code: 20E7F33D	Client: Test America
Sample Date: 25 Oct-17 03:47	Material: WWTF Effluent	Project:
Receipt Date: 26 Oct-17 14:50	Source: Holyoke WWTF (MA0101630)	
Sample Age: 36h	Station:	

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	C > T	50	> 50	n/a	2	8.77%

Steel Many-One Rank Sum Test

Control	vs	Conc-%	Test Stat	Critical	Ties	DF	P-Type	P-Value	Decision(α:5%)
Dilution Water		6.25	20	10	1	6	Asymp	0.9361	Non-Significant Effect
		12.5	20	10	1	6	Asymp	0.9361	Non-Significant Effect
		25	20	10	1	6	Asymp	0.9361	Non-Significant Effect
		50	20	10	1	6	Asymp	0.9361	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	0.95	0.9	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0113416	0.0028354	4	1	0.4380	Non-Significant Effect
Error	0.0425309	0.0028354	15			
Total	0.0538725		19			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Levene Equality of Variance Test	9	4.893	6.5E-04	Unequal Variances
Variances	Mod Levene Equality of Variance Test	1	4.893	0.4380	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.5088	0.866	3.8E-07	Non-Normal Distribution

48h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	4	0.9500	0.7909	1.0000	1.0000	0.8000	1.0000	0.0500	10.53%	0.00%
6.25		4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	-5.26%
12.5		4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	-5.26%
25		4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	-5.26%
50		4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	-5.26%

Angular (Corrected) Transformed Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	4	1.286	1.096	1.475	1.345	1.107	1.345	0.05953	9.26%	0.00%
6.25		4	1.345	1.345	1.346	1.345	1.345	1.345	0	0.00%	-4.63%
12.5		4	1.345	1.345	1.346	1.345	1.345	1.345	0	0.00%	-4.63%
25		4	1.345	1.345	1.346	1.345	1.345	1.345	0	0.00%	-4.63%
50		4	1.345	1.345	1.346	1.345	1.345	1.345	0	0.00%	-4.63%

CETIS Analytical Report

Report Date: 13 Nov-17 10:36 (p 2 of 2)

Test Code: 17-1671 | 18-3495-3463

Ceriodaphnia 48-h Acute Survival Test

New England Bioassay

Analysis ID: 08-2153-6784

Endpoint: 48h Survival Rate

CETIS Version: CETISv1.9.2

Analyzed: 13 Nov-17 10:30

Analysis: Nonparametric-Control vs Treatments

Official Results: Yes

48h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	1.0000	1.0000	0.8000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000

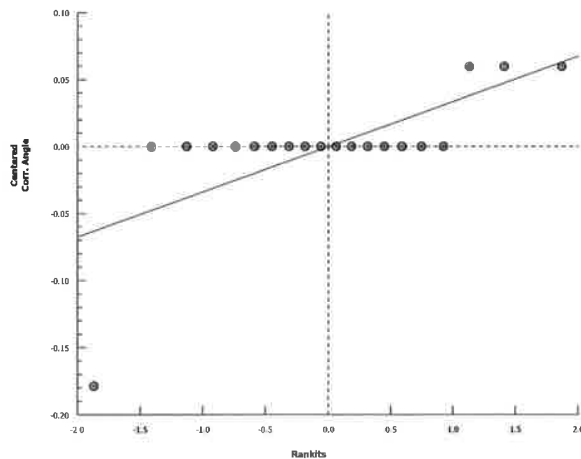
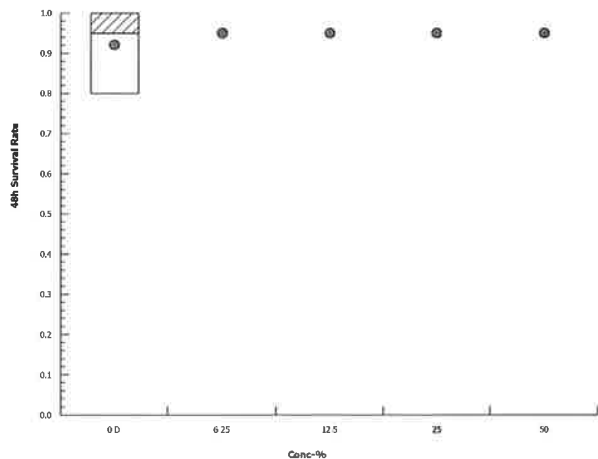
Angular (Corrected) Transformed Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	1.345	1.345	1.107	1.345
6.25		1.345	1.345	1.345	1.345
12.5		1.345	1.345	1.345	1.345
25		1.345	1.345	1.345	1.345
50		1.345	1.345	1.345	1.345

48h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	5/5	5/5	4/5	5/5
6.25		5/5	5/5	5/5	5/5
12.5		5/5	5/5	5/5	5/5
25		5/5	5/5	5/5	5/5
50		5/5	5/5	5/5	5/5

Graphics



CETIS Analytical Report

Report Date: 13 Nov-17 10:37 (p 1 of 2)

Test Code: 17-1671 | 18-3495-3463

Ceriodaphnia 48-h Acute Survival Test

New England Bioassay

Analysis ID: 05-1490-0117	Endpoint: 48h Survival Rate	CETIS Version: CETISv1.9.2
Analyzed: 13 Nov-17 10:30	Analysis: Binomial Method	Official Results: Yes
Batch ID: 08-6381-9841	Test Type: Survival (48h)	Analyst:
Start Date: 26 Oct-17 15:41	Protocol: EPA/821/R-02-012 (2002)	Diluent: Laboratory Water
Ending Date: 28 Oct-17 15:29	Species: Ceriodaphnia dubia	Brine: Not Applicable
Duration: 48h	Source: In-House Culture	Age: <24h
Sample ID: 05-5207-1997	Code: 20E7F33D	Client: Test America
Sample Date: 25 Oct-17 03:47	Material: WWTF Effluent	Project:
Receipt Date: 26 Oct-17 14:50	Source: Holyoke WWTF (MA0101630)	
Sample Age: 36h	Station:	

Binomial/Graphical Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	LC50	95% LCL	95% UCL
Control Threshold	0.05	0.00%	1.849	0	70.71	50	100

Test Acceptability Criteria

		TAC Limits		Overlap	Decision
Attribute	Test Stat	Lower	Upper		
Control Resp	0.95	0.9	>>	Yes	Passes Criteria

48h Survival Rate Summary

		Calculated Variate(A/B)									
Conc-%	Code	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	D	4	0.9500	0.8000	1.0000	0.0500	0.1000	10.53%	0.0%	19	20
6.25		4	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-5.26%	20	20
12.5		4	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-5.26%	20	20
25		4	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-5.26%	20	20
50		4	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-5.26%	20	20
100		4	0.0000	0.0000	0.0000	0.0000	0.0000		100.0%	0	20

48h Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	1.0000	1.0000	0.8000	1.0000
6.25		1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000
100		0.0000	0.0000	0.0000	0.0000

48h Survival Rate Binomials

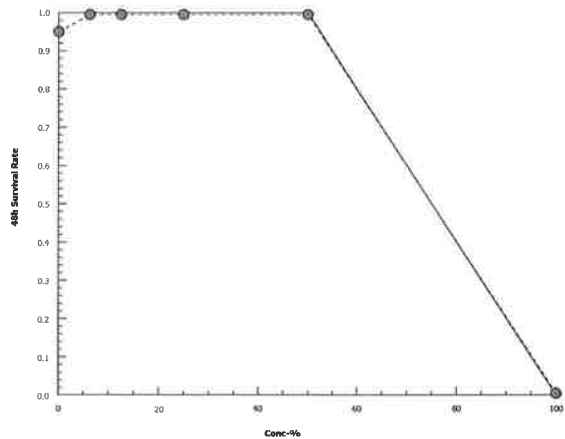
Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	5/5	5/5	4/5	5/5
6.25		5/5	5/5	5/5	5/5
12.5		5/5	5/5	5/5	5/5
25		5/5	5/5	5/5	5/5
50		5/5	5/5	5/5	5/5
100		0/5	0/5	0/5	0/5

CETIS Analytical Report

Report Date: 13 Nov-17 10:37 (p 2 of 2)
Test Code: 17-1671 | 18-3495-3463

Ceriodaphnia 48-h Acute Survival Test		New England Bioassay	
Analysis ID:	05-1490-0117	Endpoint:	48h Survival Rate
Analzyed:	13 Nov-17 10:30	Analysis:	Binomial Method
		CETIS Version:	CETISv1.9.2
		Official Results:	Yes

Graphics



INITIAL CHEMISTRY INFORMATION

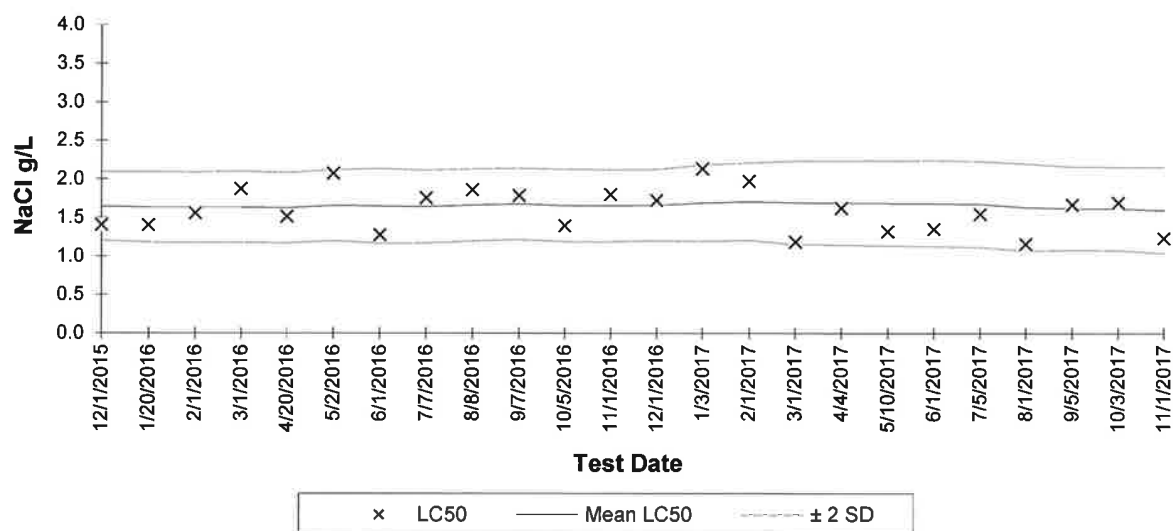
CLIENT: United Water
PROJECT # 05.0044965.00

RECEIPT DATE	10/26/17
SAMPLE	Effluent
COC #	C37-4024
Temperature (°C)	1.1
Dissolved Oxygen (mg/L)	10.4
pH (standard units)	6.5
Conductivity (µmhos/cm)	116
Salinity (ppt)	<1
Hardness (as mg/L CaCO ₃)	12
Alkalinity (as mg/L CaCO ₃)	5
TRC - DPD (mg/L)	0.202*
INITIALS	CB

Additional notes:

* 0.05 mg/L by amperometric titration

New England Bioassay
Reference Toxicant Data: Sodium chloride (NaCl) *Ceriodaphnia dubia* 48-hour LC50



Test ID	Date	LC ₅₀	Mean LC ₅₀	STD	-2 STD	+2 STD	CV	CV National	CV National
								75th %	90th %
15-1772	12/1/2015	1.4	1.6	0.2	1.2	2.1	0.13	0.29	0.34
16-107	1/20/2016	1.4	1.6	0.2	1.2	2.1	0.14	0.29	0.34
16-134	2/1/2016	1.6	1.6	0.2	1.2	2.1	0.14	0.29	0.34
16-298	3/1/2016	1.9	1.6	0.2	1.2	2.1	0.14	0.29	0.34
16-563	4/20/2016	1.5	1.6	0.2	1.2	2.1	0.14	0.29	0.34
16-592	5/2/2016	2.1	1.7	0.2	1.2	2.1	0.14	0.29	0.34
16-703	6/1/2016	1.3	1.7	0.2	1.2	2.1	0.15	0.29	0.34
16-885	7/7/2016	1.8	1.6	0.2	1.2	2.1	0.14	0.29	0.34
16-1156	8/8/2016	1.9	1.7	0.2	1.2	2.1	0.14	0.29	0.34
16-1252	9/7/2016	1.8	1.7	0.2	1.2	2.1	0.14	0.29	0.34
16-1466	10/5/2016	1.4	1.7	0.2	1.2	2.1	0.14	0.29	0.34
16-1586	11/1/2016	1.8	1.7	0.2	1.2	2.1	0.14	0.29	0.34
16-1730	12/1/2016	1.7	1.7	0.2	1.2	2.1	0.14	0.29	0.34
17-5	1/3/2017	2.1	1.7	0.2	1.2	2.2	0.15	0.29	0.34
17-147	2/1/2017	2.0	1.7	0.3	1.2	2.2	0.15	0.29	0.34
17-274	3/1/2017	1.2	1.7	0.3	1.2	2.2	0.16	0.29	0.34
17-475	4/4/2017	1.6	1.7	0.3	1.1	2.2	0.16	0.29	0.34
17-695	5/10/2017	1.3	1.7	0.3	1.1	2.2	0.16	0.29	0.34
17-772	6/1/2017	1.4	1.7	0.3	1.1	2.2	0.17	0.29	0.34
17-968	7/5/2017	1.6	1.7	0.3	1.1	2.2	0.17	0.29	0.34
17-1140	8/1/2017	1.2	1.6	0.3	1.1	2.2	0.17	0.29	0.34
17-1325	9/5/2017	1.7	1.6	0.3	1.1	2.2	0.17	0.29	0.34
17-1521	10/3/2017	1.7	1.6	0.3	1.1	2.2	0.17	0.29	0.34
17-1689	11/1/2017	1.2	1.6	0.3	1.0	2.2	0.18	0.29	0.34

Login Sample Receipt Checklist

Client: SUEZ Water Environmental Services Inc

Job Number: 480-126540-1

Login Number: 126540

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	SUEZ
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: SUEZ Water Environmental Services Inc

Job Number: 480-126540-1

Login Number: 126540

List Number: 2

Creator: Edwards, Jessica R

List Source: TestAmerica Savannah

List Creation: 10/26/17 03:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000

TestAmerica Boston

240 Bear Hill Road -- Suite 104
Waltham MA 02451

Chain of Custody



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

[illegible]

TestAmerica Westfield

501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston

240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information: Client Contact: <u>VAL Partyka</u> Company: <u>Suez Hoboken</u> Address: <u>1 Berkshire St</u> City: <u>Hoboken</u> State and Zip: <u>MA 01040</u> Client's Phone: <u>413-534-2222</u> Client's Contact Email: Client's Project Name/Number: Sample Collection Site Name & Location:		Lab PM: Lab COC Barcode Label: <u>34603</u> Page: _____ of _____ Job #: _____	
Due Date Requested: Turnaround Time (TAT) Requested (business days): Quote # or Project #: PO #: WO #: PWS ID #:		Analysis Requested (Cerodaphnia toxicity) BOD TSS TKN NH ₃ NO ₂ NO ₃ Total Nitrogen AL, Cu, Pb (200.8) Cd, Ni, Zn, Hexadec TS / TDS / Conductivity Alkalinity pH	
Sample Identification CSO #9 stormwater 10/24/17-10/25/17 9:47 PM - 3:47 AM C WW Matrix Type: C-Comp G=Grab		Total Number of Containers (enter total for each line): 8	
Sample Collection Date (MM/DD/YY) Sample Collection Time (24 Hour Clock) Sample Type: C-Comp G=Grab		Preservation Codes => 480-126540 Chain of Custody	
Possible Hazard Identification (please check off each that may apply): <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/> X=Waste (non-water) Z=Other:			
** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil Relinquished by: <u>Val Partyka</u> Date/Time: <u>10/25/17 10:15 AM</u> Company: <u>Suez</u> Relinquished by: <u>Val Partyka</u> Date/Time: <u>10/25/17 11:00</u> Company: <u>TAL</u> Relinquished by: <u>Val Partyka</u> Date/Time: _____ Company: _____			
Custody Seals Intact: Δ Yes Δ No Custody Seal No.: <u>Q.5555-0-30.8</u>			
NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !! Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month): <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions & Notes: Buffalo login 200.8 → 50.0			